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NL PT SE

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(71) Applicant:

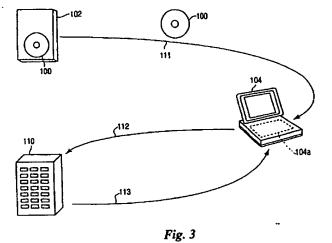
VICTOR COMPANY OF JAPAN LIMITED Yokohama-Shi Kanagawa-Ken (JP)

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## (54) Cipher key and reproduction methods, apparatuses, systems and optical disc

(57) Plural program information and a BCA (Burst Cutting Area) number of the optical disc 100 is previously recorded in the optical disc 100. A drive ID is stored in the nonvolatile memory 104a of the reproduction apparatus 104. A user of the reproduction apparatus 104 notifies the BCA number, the drive ID, and a number of preferred program information to the software house (software supplier) 110 on the condition that the user pays for the reproduction of the preferred

program information recorded in the optical disc 100. The software house 110 notifies a cipher key to the reproduction apparatus 104 or the user. A title key is calculated in the reproduction apparatus 104 in accordance with the BCA number, the drive ID, and the cipher key. The preferred information recorded in the optical disc 100 is permitted to be reproduced by using the title key.



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EP 0 853 315 A



## **EUROPEAN SEARCH REPORT**

Application Number EP 98 10 0149

		RED TO BE RELEVANT	Т.	1
Category	Citation of document with in of relevant passa	dication, where appropriate, ages	Refevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CL6)
X	EP 0 561 685 A (FUJ 22 September 1993 (	1993-09-22)	2,14,16 22,23, 27,28, 37,38	, G11B20/00 G11B7/00
	* column 3, line 32 * column 13, line 4 * figures 1,2,14 *	- column 6, line 8 * - line 26 *	3,7,19,	
A	* Tigures 1,2,14 *		20,32,	6
<b>X</b> -	EP 0 679 977 A (IBM 2 November 1995 (1994) * column 10, line 30 * column 12, line 40 * column 14, line 20 * column 15, line 10	95-11-02) 4 - line 47 * 0 - line 54 *	4,17,29	
A	* column 18, line 1 * figures 10A,10B *	8 - line 39 *	1-3, 5-16, 18-24, 26-28, 30-34	TECHNICAL FIELDS SEARCHED (Int.Cl.6)
X	EP 0 191 162 A (IBM 20 August 1986 (198 * column 5, line 45 * column 6. line 7	6-08-20)	1,2,22,23,37,3	G11B G06F 8
A	* column 7, line 54	- line 55 <sup>*</sup> *	3-6, 12-20, 26,27, 35,36	
X	EP 0 636 962 A (SOF 1 February 1995 (19		4,17	
A	* the whole documen		7,18,42	
·		hoon demand to all plains		
	The present search report has	Quie of completion of the search		Examiner
	THE HAGUE	7 October 1999	00	or, M
X : par Y : par doc	CATEGORY OF CITED DOCUMENTS nicularly relevant if taken alone ricularly relevant if combined with anot current of the same category thrological background	T : theory or print E : earter patent after the (illing ther D : document cite L : document cite	sple underlying the document, but purdate and in the applicated for other reason	e invention blished on, or

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# **EUROPEAN SEARCH REPORT**

Application Number EP 98 10 0149

	DOCUMENTS CONSIDERE	<del></del>		<del></del>
Category	Citation of document with indicat of relevant passages		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	PATENT ABSTRACTS OF JA vol. 016, no. 495 (P-1 14 October 1992 (1992- & JP 04 178967 A (DAIN	436), 10-14) IPPON PRINTING CO	25,39	
A	LTD), 25 June 1992 (19 * abstract *	92-06-25)	42	
A	PATENT ABSTRACTS OF JA vol. 1996, no. 609, 30 September 1996 (199 & JP 08 124305 A (SONY 17 May 1996 (1996-05-1 * abstract *	6-09-30) CORP),	2,3	
				TECHNICAL FIELDS SEARCHED (Int.Cl.6)
•	·			
			_	
	The present search report has been			
	Place of search	Date of completion of the search		Examiner
X : part Y : part doc A : tecl O : nor	THE HAGUE  CATEGORY OF CITED DOCUMENTS  ticularly relevant if taken alone icularly relevant if combined with another ument of the same category hnotogical backgroundwritten disclosure written disclosure	E : earlier pater after the fân D : document ci L : document ci	nciple underlying the the document, but public g date ited in the application ted for other reasons	ished on, or

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### ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 98 10 0149

This annex lists the patent tamily members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

07-10-1999

cited in :	t document search report		Publication date		Patent family member(s)	Publication date
EP 056	61685	A	22-09-1993	JP	5257816 A	08-10-19
				US	5392351 A	21-02-19
				US	5555304 A	10-09-19
				US	5796824 A	18-08-19
EP 06	79977	Α	02-11-1995	US	5563946 A	08-10-19
				JP	7295798 A	10-11-19
EP 019	91162	A	20-08-1986	CA	1238427 A	21-06-19
				DE	3587072 A	18-03-19
				JP	1630801 C	26-12-19
				JP	2060007 B	14-12-19
				JP	61145642 A	03-07-19
				US	4757534 A	12-07-19
EP 06	36962	A	01-02-1995	US	5337357 A	09-08-19
				CA	2120816 A	18-12-19
JP 04	178967	A	25-06-1992	NONE		
JP 08	124305	A	17-05-1996	NONE		
JP 08	124305	A 	17-05-1996 	NONE		
	. •					

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82